

Kunrapee Meesang 2014: From IEC 60439 to IEC 61439 Standards are What Changes. Master of Engineering (Electrical Engineering), Major Field: Electrical Engineering, Department of Electrical Engineering. Thesis Advisor: Associate Professor Trin Saengsuwan, Ph.D. 249 pages.

This thesis proposes a significant change of the international standard for Low-voltage switchgear and controlgear assemblies, also called “ASSEMBLY” from IEC 60439-1 to IEC 61439-1 by performing a comparative analysis of the differences of content in IEC 61439-1 standard and IEC 60439-1 standard. This thesis presents content of regulation and changing of verify design, including purpose of change. IEC 60439 and IEC 61439 standard series are common standard that have been applied for ASSEMBLY but IEC 60439 standard series will abolish at the end of 2014, only IEC 61439 standard series will apply in the beginning of 2015 on ward. This thesis allows original manufacturers and ASSEMBLY manufacturer to recognize the change in the standards and also guides them to apply the standards in manufacturing processes. The change of standards results in a positive effect as users and interested parties have confidence in utilizing the products in terms of product safety as well as enhance lifetime performance of the products.

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Thesis Advisor's signature